

WHAT IS CLAIMED IS:

1. A portable medical analyzer comprising:

a sampling module comprising a lancet, a driving mechanism, and a sample port, wherein said sampling port receives at least one body fluid from a tissue punctured with said lancet driven by said driving mechanism;

an assay sensor module housed in a cartridge, said cartridge comprising an interface with said sample port and at least one passage way to transport said body fluid to at least one assay sensor in said assay sensor module;

an analytical detector module comprising at least one analytical detector positioned to correspond to said assay sensor, said detector is adapted to detect information from said assay sensor; and

a communication module adapted to communicate with an information management system.

2. A portable medical analyzer according to claim 1, wherein:

said communication module comprises a transmitter adapted to transfer said information to a remote location.

3. A portable medical analyzer according to claim 1, wherein:

said communication module comprises a receiver adapted to communicate with a remote location.

4. A portable medical analyzer according to claim 1, wherein:
said sampling module is housed in said cartridge.
5. A portable medical analyzer according to claim 4, wherein:
said analytical detector module is adapted to couple with said cartridge
via a digital media standard interface.
6. A portable medical analyzer according to claim 4, wherein:
said analytical detector module is adapted to couple with said
communication module via a PCMCIA interface.
7. A portable medical analyzer according to claim 4, wherein:
said cartridge is adapted to a digital media standard interface, said
analytical detector module is adapted to couple with said cartridge via said
digital media standard interface, said analytical detector module is adapted to
a standard port, and said communication module is adapted to couple with
said analytical detector module via said standard port.
8. A portable medical analyzer according to claim 1, wherein:
said transmitter is adapted to at least one interface chosen from radio
frequency, infrared and standard ports.

9. A portable medical analyzer according to claim 1, further comprising:

an information storage unit for storing said information locally on said portable medical analyzer.

10. A method for portable medical analysis comprising:

obtaining a body fluid;

housing said body fluid within a cartridge comprising an assay sensor module;

positioning said cartridge into an analytical detector module;

obtaining information from said analytical detector module;

displaying said information locally on a display within said communication module; and

transferring said information to a remote location via a communication module.

11. A method for portable medical analysis according to claim 10, wherein:

positioning said cartridge further comprises breaking a pressure seal on said cartridge, said breaking adapted to transfer said body fluid to at least one assay sensor in said assay sensor module

12. A portable medical analyzer comprising:

a sampling module comprising a sample port for receiving at least one body fluid, said sampling module housed in a cartridge;

an assay sensor module housed in said cartridge, said assay sensor module comprising at least one assay sensor adapted to at least one assay for said body fluid;

an analytical detector module comprising at least one signal processor and circuitry for processing of signals from at least one detector corresponding to said assay sensor, said detector adapted to detect information from said assay;

a communication module coupled to said signal processor, said communication module comprising a transmitter and receiver in communication with an information management system.

13. A portable medical analyzer according to claim 12, wherein:

said communication module is adapted to displaying said information locally on said portable medical analyzer.

14. A portable medical analyzer according to claim 12, wherein:

said communication module is adapted to displaying historical data locally on portable medical analyzer.

15. A portable medical analyzer according to claim 12, wherein:
said transmitter is adapted to at least one interface chosen from radio frequency, infrared and standard ports.
16. A portable medical analyzer according to claim 12, wherein:
said transmitter is adapted to communicate with a remote database.
17. A portable medical analyzer according to claim 12, wherein:
said communication module further comprises a storage unit for storing said information locally on said portable medical analyzer.
18. A portable medical analyzer according to claim 12, wherein:
said information management system comprises a system for brokering medical data.
19. A portable medical analyzer according to claim 12, wherein:
said information management system comprises a system for patient management.
20. A portable medical analyzer according to claim 12, wherein:
said information management system comprises a system for administering said portable medical analyzer.